

II
Progress Note September 1, 1958 - April 30, 1959

Tobacco Industry Research Committee Grant

A. Studies of Genetic Differences

Using the interview technique, we are classifying healthy blood donors coming to the Johns Hopkins Hospital Blood Bank as to their smoking habits and parental history of coronary heart disease, hypertension and cancer. More than three-quarters of these donors are under the age of 40, and over half are white men. All the interviews have been carried out either by Dr. Bernice H. Cohen, an expert in human genetics who is collaborating with me in this study, or by Mrs. Mary Brumfield, a trained field worker and interviewer.

So far, 1105 donors have been registered in the study. Information concerning ABO and Rh blood groups, STS and blood pressure are obtained from the Johns Hopkins Blood Bank. In addition to the questions on smoking habits and parental history, the interviewers have administered a phenylthiocarbamide taste test to each donor, since differences in response to this test are genetically determined.

Month	Donors Studied according to Race and Sex									
	WM		CN		WF		CF		TOTAL	
	No	%	No	%	No	%	No	%	No	%
October	82	72.6	18	15.9	11	9.7	2	1.7	113	99.9
November	100	58.1	47	27.1	20	11.4	6	3.4	173	100
December	112	63.3	44	24.8	18	10.2	3	1.6	177	99.9
January	130	56.7	59	25.7	36	15.7	4	1.7	229	99.8
February	101	63.5	35	22.1	15	9.4	8	5.0	159	100
March	126	70.8	29	16.3	18	10.1	5	2.8	178	100
April	47	61.8	20	26.3	8	10.5	1	1.3	76	99.9
Total	698	63.2	252	22.8	126	11.4	29	2.5	1105	99.9

Determinations of total serum cholesterol have been carried out on 670 of the white male donors to compare with our findings in the Johns Hopkins medical students. It will be recalled that we found significantly more smokers with high cholesterol levels than nonsmokers among the medical students. It is important that this finding be evaluated again in an independent sample of healthy young white men.

B. Studies of Psychological Differences between Smokers and Nonsmokers as Shown by Comparison of Figure Drawings.

A preliminary study of the characteristics of the figure drawings of regular cigarette smokers and of nonsmokers is in progress with the collaboration of Dr. Irvin Greenberg. Using the records of white male subjects only, the figure drawings of all heavy cigarette smokers tested by Dr. Slockbower were divided into two equal groups of 24 subjects each. Drawings by an equal number of nonsmokers tested by Dr. Slockbower were selected at random, so that, in all, four groups of drawings by 24 subjects per group were formed. A set of drawings by smokers and one by nonsmokers was given to Dr. Greenberg without his knowing which set was drawn by which. Accordingly, this is a blind experiment. He is comparing the prevalence of nearly a score of variables in the drawings of smokers versus nonsmokers. Wherever significant differences are found, the same comparison is being made in the second set of smoker-nonsmoker groups.

We also have devised a code for the classification of figure drawings and are in the process of putting the characteristics of approximately 750 sets of figure drawings on IBM cards.

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DATE: INTERVIEWER: NO.
 NAME: AGE: MALE FEMALE U.H.NO.
 ADDRESS: WHITE NEGRO STUDY NO.
OTHER

BP	COMMENTS:
PTC	
ABO	
RH	
STS	REL. GIVING BLOOD:
CHOLESTEROL	OCCUPATION

SMOKING HABITS: Fill in the box that applies to you (A, B or C)

A. I smoke <input type="checkbox"/> daily <input type="checkbox"/> occasionally <input type="checkbox"/> age begun _____ total years of smoking _____ How many do you smoke per day? Cigarettes: _____ Cigars: _____ Pipes: _____ Do you inhale? yes/no	B. I used to smoke <input type="checkbox"/> daily <input type="checkbox"/> occasionally <input type="checkbox"/> age begun _____ age stopped _____ total years of smoking _____ How many did you smoke per day? Cigarettes: _____ Cigars: _____ Pipes: _____ Did you inhale? yes/no	C. I do not smoke <input type="checkbox"/> and never <input type="checkbox"/> except a few <input type="checkbox"/> times years <input type="checkbox"/> ago
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PARENT'S MEDICAL HISTORY (Fill in boxes for both parents)

FATHER:				MOTHER:				
Smoking habits: Kind	cigarettes/pipes/cigars/other			regular/occasional/former/none	cigarettes/pipes/cigars/other			
Amount				at present _____ at death _____	regular/occasional/former/none	regular/occasional/former/none		
Age	yes <input type="checkbox"/> no <input type="checkbox"/>			at present _____ at death _____	at present _____ at death _____	at present _____ at death _____		
Cause of death				yes <input type="checkbox"/> no <input type="checkbox"/>	yes <input type="checkbox"/> no <input type="checkbox"/>			
Was death sudden				Yes No ?/U Age or ages	Yes No ?/U Age or ages			
Did parent ever have: (?yes, no or ?/U for each)								
High blood pressure				(first found)				
Stroke(s)								
Heart attack(s)								
Other heart trouble								
Cancer								
Cancer of lung								
Health at present								

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Name: _____

Please check one:

I smoke every day _____

smoke sometimes _____

I use to smoke but not now _____

I do not smoke and never have _____

I have smoked: (Check one or more) _____ (Write number)

cigarettes _____ Number cigarettes smoked each day _____

cigars _____ Number cigars smoked each day _____

pipes _____ Number pipes smoked each day _____

none of these _____

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Blood Bank No. _____		PLEASE DO NOT WRITE ON THIS SIDE
ABO _____		
RH _____		
Name _____		
Address _____		
Date _____		
S _____ R _____		
Age _____		

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